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APPLICATION NO. FILIN		FILING DATE	ING DATE FIRST NAMED INVENTOR		CONFIRMATION NO.		
10/813,245		03/31/2004	Leao Wang	GP34-U	4832		
35741	7590	03/22/2005		EXAM	EXAMINER		
KUO-HS			KWOK, F	KWOK, HELEN C			
TAICHUN	•	HO STREET, PEITU	ART UNIT	PAPER NUMBER			
TAIWAN				2856			
				DATE MAILED: 03/22/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

				_	14.				
		Applicati	ion No.	Applicant(s)					
		10/813,2	45	WANG ET AL.					
	Office Action Summary	Examine	r	Art Unit					
		Helen C.		2856					
Period for	The MAILING DATE of this commun Reply	nication appears on th	e cover sheet with the	correspondence address -	•				
THE M/ - Extension after SI) - If the pe - If NO pe - Failure to Any rep	RTENED STATUTORY PERIOD F AILING DATE OF THIS COMMUN ons of time may be available under the provisions (66) MONTHS from the mailing date of this commod for reply specified above is less than thirty (3 priod for reply is specified above, the maximum storeply within the set or extended period for reply by received by the Office later than three months apparent term adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136(a). In no ex munication. BO) days, a reply within the sta latutory period will apply and v y will, by statute, cause the app	vent, however, may a reply be tutory minimum of thirty (30) d vill expire SIX (6) MONTHS fro plication to become ABANDON	timely filed ays will be considered timely. om the mailing date of this communication NED (35 U.S.C. § 133).	ation.				
Status									
1)□ R	esponsive to communication(s) file	ed on							
2a) <u></u> ⊤	his action is FINAL .	2b)⊠ This action is r	non-final.						
3)□ S	3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
cl									
Dispositio	n of Claims								
4)⊠ C	☑ Claim(s) <u>1-3</u> is/are pending in the application.								
48	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)□ C	Claim(s) is/are allowed.								
•	Claim(s) <u>1-3</u> is/are rejected.								
·									
8)∐ C	laim(s) are subject to restric	ction and/or election	requirement.						
Application	n Papers								
9)[] TI	ne specification is objected to by th	ne Examiner.							
10)∏ TI	ne drawing(s) filed on is/are	: a) accepted or b)□ objected to by the	e Examiner.					
Α	pplicant may not request that any obje	ection to the drawing(s)	be held in abeyance. S	See 37 CFR 1.85(a).					
	eplacement drawing sheet(s) including	-		-					
11)∐ Tł	ne oath or declaration is objected to	o by the Examiner. N	ote the attached Offic	ce Action or form PTO-152	2.				
Priority un	der 35 U.S.C. § 119								
a) <u>□</u> 1 2 3	cknowledgment is made of a claim All b) Some * c) None of: Certified copies of the priority Certified copies of the priority Copies of the certified copies application from the Internation	documents have been documents have been of the priority documents Bureau (PCT Ru	en received. en received in Applica ents have been recei le 17.2(a)).	ation No ved in this National Stage					
Attachment(s									
	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (F	PTO-948)	4) Interview Summa Paper No(s)/Mail	Date					
	tion Disclosure Statement(s) (PTO-1449 or lo(s)/Mail Date	r PTO/SB/08)	5) Notice of Informa 6) Other:	Patent Application (PTO-152)					

Application/Control Number: 10/813,245

Art Unit: 2856

DETAILED ACTION

Drawings

1. The drawings are objected. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

In Figures 1, 2 and 5, the block elements (i.e. elements 30,61,62,63,64) need to be labeled with it description within the block elements.

In Figure 5, the figure should be designated by a legend such as – Prior Art – because only that which is old is illustrated.

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Specification

2. The disclosure is objected to because of the following informalities. Appropriate correction is required.

In the specification, there is no description for reference numeral "10" as illustrated in Figures 1 and 2.

On page 1, line 6, the word "valve" should be changed to - value --.

On page 2, line 19, the word "supper" should be changed to - supply --.

Claim Objections

3. Claims 1-3 are objected to because of the following informalities. Appropriate correction is required.

In claim 1, line 3, the phrase "the sensing terminal each" should be changed to – each of the sensing terminals —. In line 5, the word "definded" should be changed to – defined —. In line 9, the word "supper" should be changed to – supply -. In line 12, what is the word "their" referring to? In line 12, the phrase "determining the" should be changed to – a —. In line 13, the phrase "the acceleration value" should be changed to – an acceleration value —.

In claim 2, line 3, what is the word "it" referring to?

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United

States.

5. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by JP 59-30066

(Koide et al.).

Koide et al. discloses an acceleration detector comprising, as illustrated in

Figures 1-2, a position signal generator 5 having a plurality of sensing terminals 1

aligned to one another in axial direction such that each of the sensing terminals

representing a certain position signal value; a rolling ball 2 movable within a closed

space 3 defined by the position signal generator; a signal-detecting and arithmetic unit

(not shown, but it is inherit to have a signal-detecting and arithmetic unit for calculation

of the measured signals) for receiving and calculating the position signal value of the

sensing terminal where the rolling ball is located; and a power supply unit connected to

the signal-detecting and arithmetic unit such that when the rolling ball is forced to move

in axial direction so that the signal-detecting and arithmetic unit can calculate different

position signal values and obtain a change during a certain time period for determining

the displacement distance and the acceleration value (i.e. at sensing terminal 1'). (See

Abstract).

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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7. Claims 2-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 59-30066 (Koide et al.) in view of U.S. Patent 4,311,051 (Eon et al.).

With regards to claims 2 and 3, Koide et al. does not disclose an expansion spring attached to the rolling ball and a frame around the rolling ball. Eon et al. discloses an acceleration detector comprising, as illustrated in Figures 1-3, an expansion spring 21 attached to the rolling ball 20 and a frame 28,31 around the rolling ball. (See, column 4, lines 23-39). It would have been obvious to a person of ordinary skill in the art at the time of invention to have readily recognize the advantages and desirability of employing the expansion spring attached to the rolling ball and the frame around the rolling ball as suggested by Eon et al. to the apparatus of Koide et al. so that the rolling ball is capable of moving against the action of the expansion spring permanently urging it towards a stop and to return to a neutral position without deviating from its position within the frame.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The references cited are related to displacement sensor and acceleration sensor.

872-9306.

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9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Helen C. Kwok whose telephone number is (571) 272-

2197. The examiner can normally be reached on 8:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron E. Williams can be reached on (571) 272-2208. The fax phone number for the organization where this application or proceeding is assigned is 703-

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Helen C. Kwok Art Unit 2856

Toole

March 17, 2005